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OM protein - protein search, using sw model

Run on: September 11, 2003, 14:13:56 ; Search time 24 Seconds
(without alignments)
893.817 Million cell updates/sec

Title: US-09-977-261-2

Perfect score: 2671
Sequence: 1 MAGRGLVSWRAFGCDNAE.....PASVSGQADAGSTSPRSGP 507

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 328717 seqs, 42310858 residues

Total number of hits satisfying chosen parameters: 328717

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries.

Database :

1: Issued_Patents_AA:*
2: /cgn2_6/prodata/1/iaa/5A_COMB.pep:*
3: /cgn2_6/prodata/1/iaa/5B_COMB.pep:*
4: /cgn2_6/prodata/1/iaa/6A_COMB.pep:*
5: /cgn2_6/prodata/1/iaa/6B_COMB.pep:*
6: /cgn2_6/prodata/1/iaa/PCTUS_COMB.pep:*
7: /cgn2_6/prodata/1/iaa/backfillsl.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	2671	100.0	507	US-08-426-509A-2	Sequence 2, Appl1
2	2671	100.0	507	US-08-232-545-2	Sequence 2, Appl1
3	2671	100.0	507	PCT-US95-05008-2	Sequence 2, Appl1
4	2664	99.7	507	US-08-604-989A-5	Sequence 5, Appl1
5	2445	91.5	527	US-09-315-928A-2	Sequence 2, Appl1
6	2444	91.5	466	US-08-604-989A-4	Sequence 4, Appl1
7	2434.5	91.1	528	US-08-876-882-2	Sequence 2, Appl1
8	2012	75.3	386	US-09-741-154-4	Sequence 4, Appl1
9	2012	75.3	415	US-09-741-154-2	Sequence 2, Appl1
10	1269	47.5	246	US-08-604-989A-3	Sequence 3, Appl1
11	1245.5	46.6	450	US-08-426-509A-7	Sequence 7, Appl1
12	1245.5	46.6	450	US-08-232-545-7	Sequence 7, Appl1
13	1245.5	46.6	450	PCT-US95-05008-7	Sequence 7, Appl1
14	797	29.8	269	US-08-701-191A-35	Sequence 35, Appl1
15	768	28.8	258	US-09-035-706-3	Sequence 3, Appl1
16	768	28.8	258	US-08-955-841-3	Sequence 3, Appl1
17	768	28.8	258	US-09-390-425-3	Sequence 3, Appl1
18	768	28.8	258	US-09-566-906-3	Sequence 3, Appl1
19	742.5	27.8	509	US-09-039-555B-17	Sequence 17, Appl1
20	742.5	27.8	509	US-08-426-509A-18	Sequence 18, Appl1
21	742.5	27.8	509	US-09-457-040B-18	Sequence 8, Appl1
22	742.5	27.8	509	US-08-232-545-18	Sequence 18, Appl1
23	742.5	27.8	509	PCT-US95-05008-18	Sequence 18, Appl1
24	732	27.4	533	US-07-820-011A-2	Sequence 2, Appl1
25	732	27.4	533	PCT-US93-00445-2	Sequence 2, Appl1
26	727	27.2	536	US-07-820-011A-4	Sequence 4, Appl1
27	727	27.2	536	US-08-426-509A-13	Sequence 13, Appl1

28	727	27.2	536	US-08-232-545-13	Sequence 13, Appl1
29	727	27.2	536	PCT-US93-00445-4	Sequence 4, Appl1
30	727	27.2	536	PCT-US95-05008-13	Sequence 13, Appl1
31	720.5	27.0	505	US-08-426-509A-17	Sequence 17, Appl1
32	720.5	27.0	505	US-08-232-545-17	Sequence 17, Appl1
33	720.5	27.0	505	PCT-US95-05008-17	Sequence 17, Appl1
34	710	26.6	543	US-08-426-509A-14	Sequence 14, Appl1
35	710	26.6	543	US-08-232-545-14	Sequence 14, Appl1
36	710	26.6	543	PCT-US95-05008-14	Sequence 14, Appl1
37	707	26.5	512	US-08-426-509A-16	Sequence 16, Appl1
38	707	26.5	512	US-08-232-545-16	Sequence 16, Appl1
39	707	26.5	512	PCT-US95-05008-16	Sequence 16, Appl1
40	699.5	26.2	536	US-08-426-509A-12	Sequence 12, Appl1
41	699.5	26.2	536	US-08-232-545-12	Sequence 12, Appl1
42	699.5	26.2	536	PCT-US95-05008-12	Sequence 12, Appl1
43	699	26.2	499	US-08-426-509A-19	Sequence 19, Appl1
44	699	26.2	499	US-08-232-545-19	Sequence 19, Appl1
45	699	26.2	499	PCT-US95-05008-19	Sequence 19, Appl1

ALIGNMENTS

RESULT 1
US-08-426-509A-2
; Sequence 2, Application US/08426509A
; Patent No. 6326469
; GENERAL INFORMATION:
; APPLICANT: Ullrich, Axel
; APPLICANT: Gishlitzky, Mikhail
; APPLICANT: Sures, Irman G.
; TITLE OF INVENTION: NOVEL MEGAKARYOCYTIC PROTEIN
; TITLE OF INVENTION: TYROSINE KINASES
; NUMBER OF SEQUENCES: 21
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Penile & Edmonds
; STREET: 1155 Avenue of the Americas
; CITY: New York,
; STATE: NY
; COUNTRY: USA
; ZIP: 10036-2711
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FASTSEQ Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/426,509A
; FILING DATE: 21-Apr-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/232,545
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Coruzzi, Laura A
; REGISTRATION NUMBER: 30,742
; REFERENCE/DOCKET NUMBER: 7683-0074-999
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 212-790-9090
; TELEFAX: 212-869-9741
; TELEX: 66141 PENNIE
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 507 amino acids
; TYPE: amino acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; MOLECULE TYPE: No. 6326469e
; US-08-426-509A-2
Query Match 100.0%; Score 2671; DB 4; Length 507;
Best Local Similarity 100.0%; Pred. No. 2.7e-219;
Matches 507; Conservative 0; Mismatches 0; Indels 0; Caps 0;

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QY      1  MAGRSLVSWRAFHGCDASAEELPRVSPRFLRAMHPPVSARMPTRRMAPGTQCTKCEHT 60
DB      1  MAGRSLVSWRAFHGCDASAEELPRVSPRFLRAMHPPVSARMPTRRMAPGTQCTKCEHT 60
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DB      61  RPKPELAFRRGDDVVTILEACENKSMYRVKHHHTSGQEBGLAAGALREREALSADPKLSLM 120
QY      121  PMFHGKISGOEAVOQLOPPEDGLFLVRESARHPGDYVLCVSFGRDVIHYRVLHRDGHLLTI 180
DB      121  PMFHGKISGOEAVOQLOPPEDGLFLVRESARHPGDYVLCVSFGRDVIHYRVLHRDGHLLTI 180
QY      181  DEAFVFCMLMDMVEHTSKDKGALCTKLVPRKRKHGTSKSAEELARAGMLNLQHLTLGAQ 240
DB      181  DEAFVFCMLMDMVEHTSKDKGALCTKLVPRKRKHGTSKSAEELARAGMLNLQHLTLGAQ 240
QY      241  IGESEFGAVLOGEYTGOKVAANKIKCDVTAQAFLEDETAVMTKMOHENLVRLLGVTLHGGL 300
DB      241  IGESEFGAVLOGEYTGOKVAANKIKCDVTAQAFLEDETAVMTKMOHENLVRLLGVTLHGGL 300
QY      301  YIYMEHVSQGNLVNLRTRGRALVNTAQLQFSLHVAEGMEYLESKLLVHRDLAARNILY 360
DB      301  YIYMEHVSQGNLVNLRTRGRALVNTAQLQFSLHVAEGMEYLESKLLVHRDLAARNILY 360
QY      361  SEDLVAKYSDPGLAKAEKRGDSSRLPYKWTAPALKKGKFTSKSDVMSFGVLLMEVFSY 420
DB      361  SEDLVAKYSDPGLAKAEKRGDSSRLPYKWTAPALKKGKFTSKSDVMSFGVLLMEVFSY 420
QY      421  GRAPYPKKSLKEVSAVVEKGRMEPPECCPGVHVLMSSCWEAFARPPRKLAEKLAR 480
DB      421  GRAPYPKKSLKEVSAVVEKGRMEPPECCPGVHVLMSSCWEAFARPPRKLAEKLAR 480
QY      481  ELRSAGAPASVSGODADGSTSPRSQEP 507
DB      481  ELRSAGAPASVSGODADGSTSPRSQEP 507

RESULT 2
; Sequence 2, Application US/08232545
; Patent No. 6506578
; GENERAL INFORMATION:
; APPLICANT: Ullrich, Axel
; APPLICANT: Gishizsky, Mikhail
; APPLICANT: Sures, Irman G.
; TITLE OF INVENTION: No. 6506578el Megakaryocytic Protein Tyrosine
; TITLE OF INVENTION: Kinases
; NUMBER OF SEQUENCES: 21
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Pennie & Edmonds
; STREET: 1155 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 10036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/232,545
; FILING DATE: 22-APR-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Coruzzi, Laura A.
; REGISTRATION NUMBER: 30,742
; REFERENCE/DOCKET NUMBER: 7683-050
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212)790-9090
; TELEFAX: (212)869-9741
; TELEX: 66141 PENNIE

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; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 507 amino acids
; TYPE: amino acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; MOLECULE TYPE: protein
US-08-232-545-2

Query Match      100.0%; Score 2671; DB 4; Length 507;
Best Local Similarity 100.0%; Pred. No. 2,7e-219;
Matches 507; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1  MAGRSLVSWRAFHGCDASAEELPRVSPRFLRAMHPPVSARMPTRRMAPGTQCTKCEHT 60
DB      1  MAGRSLVSWRAFHGCDASAEELPRVSPRFLRAMHPPVSARMPTRRMAPGTQCTKCEHT 60
QY      61  RPKPELAFRRGDDVVTILEACENKSMYRVKHHHTSGQEBGLAAGALREREALSADPKLSLM 120
DB      61  RPKPELAFRRGDDVVTILEACENKSMYRVKHHHTSGQEBGLAAGALREREALSADPKLSLM 120
QY      121  PMFHGKISGOEAVOQLOPPEDGLFLVRESARHPGDYVLCVSFGRDVIHYRVLHRDGHLLTI 180
DB      121  PMFHGKISGOEAVOQLOPPEDGLFLVRESARHPGDYVLCVSFGRDVIHYRVLHRDGHLLTI 180
QY      181  DEAFVFCMLMDMVEHTSKDKGALCTKLVPRKRKHGTSKSAEELARAGMLNLQHLTLGAQ 240
DB      181  DEAFVFCMLMDMVEHTSKDKGALCTKLVPRKRKHGTSKSAEELARAGMLNLQHLTLGAQ 240
QY      241  IGESEFGAVLOGEYTGOKVAANKIKCDVTAQAFLEDETAVMTKMOHENLVRLLGVTLHGGL 300
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QY      301  YIYMEHVSQGNLVNLRTRGRALVNTAQLQFSLHVAEGMEYLESKLLVHRDLAARNILY 360
DB      301  YIYMEHVSQGNLVNLRTRGRALVNTAQLQFSLHVAEGMEYLESKLLVHRDLAARNILY 360
QY      361  SEDLVAKYSDPGLAKAEKRGDSSRLPYKWTAPALKKGKFTSKSDVMSFGVLLMEVFSY 420
DB      361  SEDLVAKYSDPGLAKAEKRGDSSRLPYKWTAPALKKGKFTSKSDVMSFGVLLMEVFSY 420
QY      421  GRAPYPKKSLKEVSAVVEKGRMEPPECCPGVHVLMSSCWEAFARPPRKLAEKLAR 480
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DB      481  ELRSAGAPASVSGODADGSTSPRSQEP 507

RESULT 3
; PCT-US95-05008-2
; Sequence 2, Application PC/TUS9505008
; GENERAL INFORMATION:
; APPLICANT: Sugen, Inc.
; APPLICANT: 515 Galveston Drive
; APPLICANT: Redwood City, California 94063-4720
; APPLICANT: United States of America
; APPLICANT: Wissenschaften E.V.
; APPLICANT: Hofgarten Str. 2
; APPLICANT: Munchen 80539
; APPLICANT: Germany
; TITLE OF INVENTION: Novel Megakaryocytic Protein Tyrosine
; TITLE OF INVENTION: Kinases
; NUMBER OF SEQUENCES: 21
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Pennie & Edmonds
; STREET: 1155 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 10036
; COMPUTER READABLE FORM:

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MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/05008
CLASSIFICATION:
FILING DATE: 24-APR-1995
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: US 08/232,545
FILING DATE: 22-APR-1994
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Coruzzi, Laura A.
REGISTRATION NUMBER: 30,742
REFERENCE/DOCKET NUMBER: 7683-074
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212)790-9090
TELEFAX: (212)869-9741
TELEX: 66141 PENNIE
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 507 amino acids
TYPE: amino acid
STRANDEDNESS: unknown
TOPOLOGY: unknown
MOLECULE TYPE: protein
PCT-US95-05008-2

Query Match 100.0%; Score 2671; DB 5; Length 507;
Best Local Similarity 100.0%; Pred. No. 2,7e-219;
Matches 507; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 61 RPKPGEIAFRKGDVVTLLACENKSWYRVKHHHTSGOGLLAAGALRREALSADPKLSLM 120
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DB 181 DEAVFPCNLMDVNEHYSKDGAICTKLVPRKRKHGTSABEELARAGWLNLOHLLTGAQ 240
QY 241 IGESEFGAVLQGEYLGOKVAVNKICDVTQAFLDETAVMTKMOHENLVRLGLVILHOG 300
DB 241 IGESEFGAVLQGEYLGOKVAVNKICDVTQAFLDETAVMTKMOHENLVRLGLVILHOG 300
QY 301 YIWEHYSKGNLVNFLTGRALVNTAQLLOFSLHVAEGMEYLESKKLVHRDLAARNILV 360
DB 301 YIWEHYSKGNLVNFLTGRALVNTAQLLOFSLHVAEGMEYLESKKLVHRDLAARNILV 360
QY 361 SEDLVAVSPDFGLAKARRKLDSSRLPVKWTAPALKHGFTSKSDVWSGCVLLMEVFSY 420
DB 361 SEDLVAVSPDFGLAKARRKLDSSRLPVKWTAPALKHGFTSKSDVWSGCVLLMEVFSY 420
QY 421 GRAPYPMKSLKEVSEAVEKGYRMEPPGCGPYHVLMSQWEAPARPPFRKLAETLAR 480
DB 421 GRAPYPMKSLKEVSEAVEKGYRMEPPGCGPYHVLMSQWEAPARPPFRKLAETLAR 480
QY 481 ELRSAGAPASVSGODADGSTSPPRSQEP 507
DB 481 ELRSAGAPASVSGODADGSTSPPRSQEP 507

RESULT 4
US-08-604-989A-5
; Sequence 5, Application US/08604989A

Patent No. 5834208
GENERAL INFORMATION:
APPLICANT: Sakano, S.
TITLE OF INVENTION: No. 5834208el Tyrosine Kinase
NUMBER OF SEQUENCES: 11
CORRESPONDENCE ADDRESS:
ADDRESSEE: Pennie & Edmonds LLP
STREET: 1155 Avenue of the Americas
CITY: New York
STATE: New York
COUNTRY: USA
ZIP: 10036-2711
COMPUTER READABLE FORM:
MEDIUM TYPE: diskette
COMPUTER: IBM compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/604,989A
FILING DATE: February 23, 1996
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Charles E. Miller
REGISTRATION NUMBER: 24,576
REFERENCE/DOCKET NUMBER: 1920-026
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 790-9090
TELEFAX: (212) 869-8864/9741
TELEX: 66141 PENNIE
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 507 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
ORIGINAL SOURCE:
ORGANISM: human
STRAIN: UT-7
US-08-604-989A-5

Query Match 99.7%; Score 2664; DB 2; Length 507;
Best Local Similarity 99.8%; Pred. No. 1e-218;
Matches 506; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MAGRGSLSVSRARHGHGDSAEELPRVSPRFLRAHMPVPSARMTRRAPCTGTCENT 60
DB 1 MAGRGSLSVSRARHGHGDSAEELPRVSPRFLRAHMPVPSARMTRRAPCTGTCENT 60
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DB 61 RPKPGEIAFRKGDVVTLLACENKSWYRVKHHHTSGOGLLAAGALRREALSADPKLSLM 120
QY 121 PMFHGKISGOEAVOOLQPPEDGFLVRESARHPGDVYLCVSGRDVTHYVLRHGHLLTI 180
DB 121 PMFHGKISGOEAVOOLQPPEDGFLVRESARHPGDVYLCVSGRDVTHYVLRHGHLLTI 180
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DB 181 DEAVFPCNLMDVNEHYSKDGAICTKLVPRKRKHGTSABEELARAGWLNLOHLLTGAQ 240
QY 241 IGESEFGAVLQGEYLGOKVAVNKICDVTQAFLDETAVMTKMOHENLVRLGLVILHOG 300
DB 241 IGESEFGAVLQGEYLGOKVAVNKICDVTQAFLDETAVMTKMOHENLVRLGLVILHOG 300
QY 301 YIWEHYSKGNLVNFLTGRALVNTAQLLOFSLHVAEGMEYLESKKLVHRDLAARNILV 360
DB 301 YIWEHYSKGNLVNFLTGRALVNTAQLLOFSLHVAEGMEYLESKKLVHRDLAARNILV 360
QY 361 SEDLVAVSPDFGLAKARRKLDSSRLPVKWTAPALKHGFTSKSDVWSGCVLLMEVFSY 420
DB 361 SEDLVAVSPDFGLAKARRKLDSSRLPVKWTAPALKHGFTSKSDVWSGCVLLMEVFSY 420
QY 421 GRAPYPMKSLKEVSEAVEKGYRMEPPGCGPYHVLMSQWEAPARPPFRKLAETLAR 480
DB 421 GRAPYPMKSLKEVSEAVEKGYRMEPPGCGPYHVLMSQWEAPARPPFRKLAETLAR 480

DB 421 GRAPPKSLKEVSAVERKGRMEPPGCGPVHVLMSCEAEPRRRPKLAEKLAR 480
OY 481 ELRSAGAPASVSGODADSTSPRSQEP 507
DB 481 ELRSAGAPASVSGODADSTSPRSQEP 507

RESULT 5
US-09-315-928-2
; Sequence 2, Application US/09315928
; Patent No. 6368796
; GENERAL INFORMATION:
; APPLICANT: Avraham, Hava
; TITLE OF INVENTION: METHODS OF DETECTION AND TREATMENT OF
; TITLE OF INVENTION: BREAST CANCER
; FILE REFERENCE: NEDH97-01PAZ
; CURRENT APPLICATION NUMBER: US/09/315,928
; CURRENT FILING DATE: 1999-05-20
; PRIOR APPLICATION NUMBER: US 08/876,882
; PRIOR FILING DATE: 1997-06-16
; PRIOR APPLICATION NUMBER: US 60/035,228
; PRIOR FILING DATE: 1997-01-08
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 527.
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-315-928-2

Query Match 91.5%; Score 2445; DB 4; Length 527;
Best Local Similarity 93.5%; Pred. No. 4.9e-200;
Matches 472; Conservative 1; Mismatches 18; Indels 14; Gaps 2;

OY 1 MAGRSLSVSMRAFHCCDSAEELPRVSPRFLRAMHPPVSARMPTRRRARGTCTCKCEHT 60
DB 1 MAGRSLSVSMRAFHCCDSAEELPRVSPRFLRAMHPPVSARMPTRRRARGTCTCKCEHT 60
OY 61 RPKPELAFRRKGDVVTILEACENKSMYRVKHNHTSGOEGLLAAGALREREALSADPKLSLM 120
DB 61 RPKPELAFRRKGDVVTILEACENKSMYRVKHNHTSGOEGLLAAGALREREALSADPKLSLM 120
OY 121 PMFHGKISGQEAUVQLOPPEDGLFLVRESARHPGDIYLCVSGRDVYIHYRVLHRDGHLLTI 180
DB 121 PMFHGKISGQEAUVQLOPPEDGLFLVRESARHPGDIYLCVSGRDVYIHYRVLHRDGHLLTI 180
OY 181 DEAVFECNLMDMVEHYSKDKGALCTKLVPRPKRHGTGKSAEELARAAGWLLNLOHLTLGAQ 240
DB 181 DEAVFECNLMDMVEHYSKDKGALCTKLVPRPKRHGTGKSAEELARAAGWLLNLOHLTLGAQ 240
OY 241 IGEFGFAGVLOGEYIGOKVAVNIKCDVTAQAFIDETAVMTKMOHENLVRLGLVILHOCIL 300
DB 241 IGEFGFAGVLOGEYIGOKVAVNIKCDVTAQAFIDETAVMTKMOHENLVRLGLVILHOCIL 300
OY 301 YIYMEHVSNGMLVNLRTGRALVNTAQLQFSLHVAEGMEYLESKLVHRDLAARNILY 360
DB 301 YIYMEHVSNGMLVNLRTGRALVNTAQLQFSLHVAEGMEYLESKLVHRDLAARNILY 360
OY 361 SEDLVAKYSDFGLAARERKGLDSSRLPYKWTAPALAKGKPTSKSDVMSFGVLLMEVSY 420
DB 361 SEDLVAKYSDFGLAARERKGLDSSRLPYKWTAPALAKGKPTSKSDVMSFGVLLMEVSY 420
OY 421 GRAPPKSLKEVSAVERKGRMEPPGCGPVHVLMSCEAEPRRRPKLAEKLAR 480
DB 421 GRAPPKSLKEVSAVERKGRMEPPGCGPVHVLMSCEAEPRRRPKLAEKLAR 480
OY 481 ELRSAGAPASVSGODADSTSPRSQ 505
DB 481 ELRSAGAPASVSGODADSTSPRSQ 505
OY 470 ---SAMPFRSWPBGSAVAVQVPPQPSQ 491
DB 470 ---SAMPFRSWPBGSAVAVQVPPQPSQ 491

RESULT 6
US-08-604-989A-4
; Sequence 4, Application US/08604989A
; Patent No. 5834208
; GENERAL INFORMATION:
; APPLICANT: Sakano, S.
; TITLE OF INVENTION: No. 5834208el Tyrosine Kinase
; NUMBER OF SEQUENCES: 11
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Pennie & Edmonds LLP
; STREET: 1155 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: USA
; ZIP: 10036-2711
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/604,989A
; FILING DATE: February 23, 1996
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Charles E. Miller
; REGISTRATION NUMBER: 24,576
; REFERENCE/DOCKET NUMBER: 1920-026
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 790-9090
; TELEFAX: (212) 869-8864/9741
; TELEX: 66141 PENNIE
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 466 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; ORIGINAL SOURCE:
; ORGANISM: human
; STRAIN: UT-7
US-08-604-989A-4

Query Match 91.5%; Score 2444; DB 2; Length 466;
Best Local Similarity 100.0%; Pred. No. 5e-200;
Matches 466; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 42 MPTRRMARGTCTCKCEHTRRPKPELAFRRKGDVVTILEACENKSMYRVKHNHTSGOEGLLA 101
DB 1 MPTRRMARGTCTCKCEHTRRPKPELAFRRKGDVVTILEACENKSMYRVKHNHTSGOEGLLA 101
OY 102 AGALREREALSADPKLSLMPMFHCKISGQEAUVQLOPPEDGLFLVRESARHPGDIYLCVS 161
DB 61 AGALREREALSADPKLSLMPMFHCKISGQEAUVQLOPPEDGLFLVRESARHPGDIYLCVS 120
OY 162 FGRDVIHYRVLHRDGHLLTIDEAVFECNLMDMVEHYSKDKGALCTKLVPRPKRHGTGKSAEE 221
DB 121 FGRDVIHYRVLHRDGHLLTIDEAVFECNLMDMVEHYSKDKGALCTKLVPRPKRHGTGKSAEE 180
OY 222 ELARAGWLLNLOHLTLGAQIGGFERGAVLOGEYIGOKVAVNIKCDVTAQAFIDETAVMT 281
DB 181 ELARAGWLLNLOHLTLGAQIGGFERGAVLOGEYIGOKVAVNIKCDVTAQAFIDETAVMT 240
OY 282 KMOHENLVRLGLVILHOCILYIYMEHVSNGMLVNLRTGRALVNTAQLQFSLHVAEGME 341
DB 241 KMOHENLVRLGLVILHOCILYIYMEHVSNGMLVNLRTGRALVNTAQLQFSLHVAEGME 300
OY 342 YLESKRLVHRDLAARNILYSEDLVAKYSDFGLAARERKGLDSSRLPYKWTAPALAKGK 401
DB 301 YLESKRLVHRDLAARNILYSEDLVAKYSDFGLAARERKGLDSSRLPYKWTAPALAKGK 360
OY 402 TSKSDVMSFGVLLMEVSYGRAPPKSLKEVSAVERKGRMEPPGCGPVHVLMSCEW 461
DB 402 TSKSDVMSFGVLLMEVSYGRAPPKSLKEVSAVERKGRMEPPGCGPVHVLMSCEW 461

Db 361 TSKSDVMSFGVLLMEVSYGRAPYPKMSLKEVSEAVEKGRMEPPGCCPGVHVLMSSCW 420
QY 462 EAPRARRPPRKLAEKLARELSAGAPASVSGODADGSTSPRSOEP 507
Db 421 EAPRARRPPRKLAEKLARELSAGAPASVSGODADGSTSPRSOEP 466

RESULT 7

US-08-876-882-2
; Sequence 2, Application US/08876882
; Patent No. 5981201
; GENERAL INFORMATION:
; APPLICANT: Avraham, Hava
; APPLICANT: Groopman, Jerome E.
; TITLE OF INVENTION: METHODS OF DETECTION AND TREATMENT
; TITLE OF INVENTION: OF BREAST CANCER
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Hamilton, Brook, Smith & Reynolds P.C.
; STREET: Two Militia Drive
; CITY: Lexington
; STATE: MA
; COUNTRY: USA
; ZIP: 02173-4799
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: Windows
; SOFTWARE: FastSeq for Windows Version 2.0b
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/876,882
; FILING DATE: 16-JUN-1997
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/035,228
; FILING DATE: 08-JAN-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Doreen, Hogle M
; REGISTRATION NUMBER: 36,361
; REFERENCE/DOCKET NUMBER: NEDH97-01PA
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 781-861-6240
; TELEFAX: 781-861-9540
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 528 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; FRAGMENT TYPE: internal
; US-08-876-882-2

Query Match 91.1%; Score 2434.5; DB 2; Length 528;
Best Local Similarity 93.3%; Pred. No. 3.8e-199;
Matches 472; Conservative 1; Mismatches 18; Indels 15; Gaps 3;

QY 1 MAAGSGLSVWRATHGCDASAEELPRVSPRFLRAMHRRPVSAKMPTRRRAPGTGCTTCKEHT 60
Db 1 MAAGSGLSVWRATHGCDASAEELPRVSPRFLRAMHRRPVSAKMPTRRRAPGTGCTTCKEHT 60
QY 61 RPPPGELAFRRKGDVVT-LEACENKSKYRYKHHSTSGEGLLAAGALREPELADPKLTSL 119
Db 61 RPPPGELAFRRKGDVVTLEACENKSKYRYKHHSTSGEGLLAAGALREPELADPKLTSL 120
QY 120 MPWFHKGISGOEAVOQLQPPEDGLFLVRESARHPGDDVLCVSFGRDVIHYRVLHRDGLHT 179
Db 120 MPWFHKGISGOEAVOQLQPPEDGLFLVRESARHPGDDVLCVSFGRDVIHYRVLHRDGLHT 180
QY 180 IDEAVFPCNLMQVNEHYSKDKGALCTKLVPRPKRHGTSKSAEDELARAGWLLNLOHLLTGA 239
Db 180 IDEAVFPCNLMQVNEHYSKDKGALCTKLVPRPKRHGTSKSAEDELARAGWLLNLOHLLTGA 240

QY 240 QIGEGEFGAVLQGEYLGOKVAVNKICDVTAAQFLDETAAMTKMOHENLVRLGLVILHOG 299
Db 241 QIGEGEFGAVLQGEYLGOKVAVNKICDVTAAQFLDETAAMTKMOHENLVRLGLVILHOG 300
QY 300 LYIYMEHVSKGMLVNFRTGRALVNTAQLQFSLHVAEEMEYLESKKLVHRDLAARNIL 359
Db 301 LYIYMEHVSKGMLVNFRTGRALVNTAQLQFSLHVAEEMEYLESKKLVHRDLAARNIL 360
QY 360 VSEDLVAKVSDPGLAKERKGLDSSRLPVKWTAPALCKHGFPTSKSDVMSFGVLLMEVFS 419
Db 361 VSEDLVAKVSDPGLAKERKGLDSSRLPVKWTAPALCKHGFPTSKSDVMSFGVLLMEVFS 419
QY 420 YGRAPYPKMSLKEVSEAVEKGRMEPPGCCPGVHVLMSSCWAEAPRARRPPRKLAEKLA 479
Db 420 YGRAPYPKMSLKEVSEAVEKGRMEPPGCCPGVHVLMSSCWAEAPRARRPPRKLAEKLA 479
QY 480 RELRSAGAPASVSGODADGSTSPRSQ 505
Db 471 ----SANNPSPRSMGSYAVQVPPPSQ 492

RESULT 8

US-09-741-154-4
; Sequence 4, Application US/09741154
; Patent No. 6437110
; GENERAL INFORMATION:
; APPLICANT: BEASLEY, Ellen M. et al
; TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC
; TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES
; FILE REFERENCE: CL001061
; CURRENT APPLICATION NUMBER: US/09/741,154
; CURRENT FILING DATE: 2000-12-21
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 386
; TYPE: PRT
; ORGANISM: Human
; US-09-741-154-4

Query Match 75.3%; Score 1012; DB 4; Length 386;
Best Local Similarity 100.0%; Pred. No. 2.4e-163;
Matches 386; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 122 WFGHGKISGOEAVOQLQPPEDGLFLVRESARHPGDDVLCVSFGRDVIHYRVLHRDGLTID 181
Db 1 WFGHGKISGOEAVOQLQPPEDGLFLVRESARHPGDDVLCVSFGRDVIHYRVLHRDGLTID 181
QY 182 EAVFPCNLMQVNEHYSKDKGALCTKLVPRPKRHGTSKSAEDELARAGWLLNLOHLLTGAOI 241
Db 61 EAVFPCNLMQVNEHYSKDKGALCTKLVPRPKRHGTSKSAEDELARAGWLLNLOHLLTGAOI 240
QY 242 GEGEFGAVLQGEYLGOKVAVNKICDVTAAQFLDETAAMTKMOHENLVRLGLVILHOG 301
Db 121 GEGEFGAVLQGEYLGOKVAVNKICDVTAAQFLDETAAMTKMOHENLVRLGLVILHOG 300
QY 302 IYMEHVSKGMLVNFRTGRALVNTAQLQFSLHVAEEMEYLESKKLVHRDLAARNIL 361
Db 181 IYMEHVSKGMLVNFRTGRALVNTAQLQFSLHVAEEMEYLESKKLVHRDLAARNIL 360
QY 362 EDLVAKVSDPGLAKERKGLDSSRLPVKWTAPALCKHGFPTSKSDVMSFGVLLMEVFS 421
Db 241 EDLVAKVSDPGLAKERKGLDSSRLPVKWTAPALCKHGFPTSKSDVMSFGVLLMEVFS 420
QY 422 RAPPYPKMSLKEVSEAVEKGRMEPPGCCPGVHVLMSSCWAEAPRARRPPRKLAEKLARE 481
Db 301 RAPPYPKMSLKEVSEAVEKGRMEPPGCCPGVHVLMSSCWAEAPRARRPPRKLAEKLARE 360
QY 482 LRSAGAPASVSGODADGSTSPRSOEP 507
Db 361 LRSAGAPASVSGODADGSTSPRSOEP 386

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RESULT 9
US-09-741-154-2
; Sequence 2, Application US/09741154
; Patent No. 6437110
; APPLICANT: BEASLEY, Ellen M. et al
; GENERAL INFORMATION:
; TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC
; TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES
; FILE OF INVENTION: THERDOP
; FILE REFERENCE: CLO01061
; CURRENT APPLICATION NUMBER: US/09/741,154
; CURRENT FILING DATE: 2000-12-21
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO: 2
; LENGTH: 415
; TYPE: PRF
; ORGANISM: Human
US-09-741-154-2

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Query Match          75.3%; Score 2012; DB 4; Length 415;
Best Local Similarity 100.0%; Pred. No. 2.6e-163;
Matches 386; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 122 WFGKISGQEAAYQQLQPPEDGLFLYRESARHPGDYVLCVSGRDYIHYRVLHRDGLHTD 181
DB 30 WFGKISGQEAAYQQLQPPEDGLFLYRESARHPGDYVLCVSGRDYIHYRVLHRDGLHTD 89
QY 182 EAVFPCNLMQVNEHYSKDKGATCTKLVPRKRGKTSAEELARAGWILNLOHTLGAOI 241
DB 90 EAVFPCNLMQVNEHYSKDKGATCTKLVPRKRGKTSAEELARAGWILNLOHTLGAOI 149
QY 242 GEGEAGVLOGEYLQKVAVKNIKCDVTAQAFLEDTAVTKMQHENVLLGVILHOGLY 301
DB 150 GEGEAGVLOGEYLQKVAVKNIKCDVTAQAFLEDTAVTKMQHENVLLGVILHOGLY 209
QY 302 IYMEHVSQGNLVNFTLRGRALVNTAQLQFSLHVAEGMEYTESKLVARDLAARNILVS 361
DB 210 IYMEHVSQGNLVNFTLRGRALVNTAQLQFSLHVAEGMEYTESKLVARDLAARNILVS 269
QY 362 EDLVAKVSDFGGLAKAEKRGIDSSRLPVKWTAPALKHGFTSKSDVMSGVLLMEVFSYG 421
DB 270 EDLVAKVSDFGGLAKAEKRGIDSSRLPVKWTAPALKHGFTSKSDVMSGVLLMEVFSYG 329
QY 422 RAPIYKMSLKEVSEAVEKGYRMEPPGCGPVHVILMSSCWEAEAPARRPFRKLAEKLAKE 481
DB 330 RAPIYKMSLKEVSEAVEKGYRMEPPGCGPVHVILMSSCWEAEAPARRPFRKLAEKLAKE 389
QY 482 ILSAGAPASVSGDADGSGTSPRSQEP 507
DB 390 ILSAGAPASVSGDADGSGTSPRSQEP 415

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RESULT 10
US-08-604-989A-3
; Sequence 3, Application US/08604989A
; Patent No. 5834208
; GENERAL INFORMATION:
; APPLICANT: Sakano, S.
; TITLE OF INVENTION: No. 5834208el Tyrosine Kinase
; NUMBER OF SEQUENCES: 11
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Pennie & Edmonds LLP
; STREET: 1155 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: USA
; ZIP: 10036-2711
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS

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SOFTWARE: FASTSEQ Version 2.0
CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/604,989A
; FILING DATE: February 23, 1996
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Charles E. Miller
; REGISTRATION NUMBER: 24,576
; REFERENCE/DOCKET NUMBER: 1920-026
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 790-9090
; TELEFAX: (212) 869-8864/9741
; TELEX: 66141 PENNIE
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 246 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; ORIGINAL SOURCE:
; ORGANISM: human
; STRAIN: UT-7
US-08-604-989A-3

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Query Match          47.5%; Score 1269; DB 2; Length 246;
Best Local Similarity 100.0%; Pred. No. 2.4e-100;
Matches 246; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 233 OHLTLGAQIGEGEFANVLOGEYLQGVAVKNIKCDVTAQAFLEDTAVTKMQHENVLLRL 292
DB 1 OHLTLGAQIGEGEFANVLOGEYLQGVAVKNIKCDVTAQAFLEDTAVTKMQHENVLLRL 60
QY 293 GVLHOGLYIYMEHVSQGNLVNFTLRGRALVNTAQLQFSLHVAEGMEYTESKLVARD 352
DB 61 GVLHOGLYIYMEHVSQGNLVNFTLRGRALVNTAQLQFSLHVAEGMEYTESKLVARD 120
QY 353 LAARNILVSEDLVAVVSDFGGLAKAEKRGIDSSRLPVKWTAPALKHGFTSKSDVMSGV 412
DB 121 LAARNILVSEDLVAVVSDFGGLAKAEKRGIDSSRLPVKWTAPALKHGFTSKSDVMSGV 180
QY 413 ILMVEFSYGRAPYPMKSLKEVSEAVEKGYRMEPPGCGPVHVILMSSCWEAEAPARRPFR 472
DB 181 ILMVEFSYGRAPYPMKSLKEVSEAVEKGYRMEPPGCGPVHVILMSSCWEAEAPARRPFR 240
QY 473 KLAERL 478
DB 241 KLAERL 246

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```

RESULT 11
US-08-426-509A-7
; Sequence 7, Application US/08426509A
; Patent No. 6326469
; GENERAL INFORMATION:
; APPLICANT: Ulrich, Axel
; APPLICANT: Gishizky, Mikhail
; APPLICANT: Sures, Irman G.
; TITLE OF INVENTION: NOVEL MEGAKARYOCYTIC PROTEIN
; TITLE OF INVENTION: TYROSINE KINASES
; NUMBER OF SEQUENCES: 21
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Pennie & Edmonds
; STREET: 1155 Avenue of the Americas
; CITY: New York,
; STATE: NY
; COUNTRY: USA
; ZIP: 10036-2711
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FASTSEQ Version 2.0
; CURRENT APPLICATION DATA:

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APPLICATION NUMBER: US/08/426,509A
 FILING DATE: 21-APR-1995
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 08/232,545
 FILING DATE:
 ATTORNEY/AGENT INFORMATION:
 NAME: Coruzzi, Laura A
 REGISTRATION NUMBER: 30,742
 REFERENCE/DOCKET NUMBER: 7683-0074-9999
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 212-790-9090
 TELEFAX: 212-869-9741
 TELEX: 66141 PENNIE
 INFORMATION FOR SEQ ID NO: 7:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 450 amino acids
 TYPE: amino acid
 STRANDEDNESS: unknown
 TOPOLOGY: unknown
 MOLECULE TYPE: NO. 6326469e
 US-08-426-509A-7

Query Match	46.6%	Score 1245.5	DB 4	Length 450
Best Local Similarity	54.1%	Pred. No. 5.3e-98		
Matches 235	Conservative 81	Mismatches 115	Indels 3	Gaps 2

Qy 47 WAPETQCITKCEHTRPKPGELAFRRGADVLTLLAECKNSWYRVKHHHTSGOEGLLAAGLR 106
| ||:| | :| |||:| :| |:| | :| |:|:| | :|
Db 8 WPSGTECIAKYNFNGHTAEDDLRFCKGADVLTIVAVTMDPNWYKAKNKY-GREGIIPANYVQ 66

```

0y 107 EREKLSDADKLTSLMPWFHKGISGQEAQQLOLPEDDGFLVRESARHFGDYLVCSFGKDY
    : : : | | | | | | | | : : : | | | | | | | | : | | | | | | | |
Db 67 KREGVKAGTKLTSLMPWFHKGITREQAERLLVPETGFLVRESTNYPGDYTLVCSCKGV
    126

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Qy 167 IHRVRLHROGHLTIDEAFPCNLMOMEHYSKDKGAICTKLYRPKRHGTSKAEELARA 226
 111::: 1:1111:111:111::1 1:11:11 1:11:1 1:
 Db 127 EHRIMYHASKLSIDEVEYFENLMOVEHYTSDADGICTRLIKPKVMEGTVAQAODEFYRS 1866

227 GWMNLNQLHTLGAQIGEGEGCAVLQGEYELGKVAANVNIKCDVTAQALDETAATMTKQHE 286
 187 GWALNMEKRLQITIGKEGSDVMIGDYRGNKVAVKCIKNATAQALAEASVMTQLRHS 246

Db 247 NLVQLLGVIEEKGLYIVIEYMAKSLVDILRSRGSVLSGGDLLKFSLDVCEAMEYLE 306

307 GNNEVHRLDAARNLVSEEDNAKVSDFGLTFREASSPTQDTGKLPVKKWIAPALREKKFESTK 366

Db 367 SDVMSFGILLMEIYSEGRVYPRIPLKDVPRVEKGYKMDAPDGCPPAVYEYWKNCWHLD 428

427 AAMRPSFLOIREQL 440

RESULT 12
US-08-232-545-7
: Sequence 7, Application US/08232545

```

; GENERAL INFORMATION:
;
; APPLICANT: Ullrich, Axel
;
; APPLICANT: Gishitsky, Mikhail
;
; ADDRESSES: Gussow, Irene C

```

TITLE OF INVENTION: No. 6506578e1 Megakaryocytic Protein Tyrosine
 ;
 TITLE OF INVENTION: Kinases
 ;
 NUMBER OF SEQUENCES: 21
 ;
 CORRESPONDENCE ADDRESS:
 ;

ADDRESSEE: Pennie & Edmonds

STREET: 1155 Avenue of the Americas
 CITY: New York
 STATE: New York
 COUNTRY: U.S.A.
 ZIP: 10036
 COMPUTER READABLE FORM:

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;
;      COMPUTER: IBM PC compatible
;      OPERATING SYSTEM: PC-DOS/MS-DOS
;      SOFTWARE: Patent Release #1.0, Version #1.25
;
; ***** Patent Release ****
```

APPLICATION NUMBER: US/08/232,545
FILING DATE: 22-APR-1994
CLASSIFICATION: 435
INVENTOR/AGENT INFORMATION:

```

; NAME: Coruzzi, Laura A.
; REGISTRATION NUMBER: 30,742
; REFERENCE/DOCKET NUMBER: 7683-0500
; METACOMMUNICATION INFORMATION:

```

TELEPHONE: (212) 750-9090
TELEFAX: (212) 869-9741
TELEX: 66141 PENNIE
INFORMATION FOR SEC TD NO: 7.

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;
; SEQUENCE CHARACTERISTICS:
;
; LENGTH: 450 amino acids
;
; TYPE: amino acid
;
; STRANDEDNESS: unknown
;

```

```

;      /TOPOLOGY: unknown
;      MOLECULE TYPE: protein
US-08-232-545-7

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Quelery match	40.0%	Score 1243-5	DB 4	Length 450
Best Local Similarity	54.1%	Pred. No. 5.3e-98		
Matches 235; Conservative	81	Mismatches 115	Indels 3	Gaps 2

[illegible]

Db 67 KREGVAKGNTLSLMPWFHGRITREQAERLLYPPEGLFVKESTNYPGDIYLLCVSCDGKV 126

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127 EHYRIMYHASKLSIDEEVYFENLMQVHEHTSDADGLCTRLIKRPMEGTVAQAODEFYRS 186

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Db
187 GMAINMKEIKLQITIGKGEEDVMIIGDYKGNKVAVKCIKDKDATAQAFLEASVMQILRHS 246

Db 247 NTVQDGLVVEKSGLYITEYMAKSGLVDFLRSGRSLVGGDCLLKFLDVCAMEYLL 306

[illegible][illegible]

Db 427 AAMRPSFIQLREQL 440

RESULT 15
PCT-US95-05008-7
; Sequence 7, Application PC/TUS9505008
; GENERAL INFORMATION:

APPLICANT: Sugem, Inc.

Db 121 MELEGNNFVHRLAARNVLVSDNNAKVSDFGLTKFASSTODTGKLPVWTAPEALREK 180
 QY 400 KFTSKSDVMSFGVLLMEVFSYGRAPYPKMSLKEVSEAVEKGYRMEPEGCGPVAHVLMSS 459
 181 KFTSKSDVMSFGVLLMEVFSYGRAPYPRIPDLKDVPRVEKGYMDABDGCPPAVYEVMKNCWHLDAAMR 240
 Db 460 CMEAEAPRRPPFRKLAERL 478
 241 CWHLDAMRPSFLQLREQL 259

RESULT 15
 US-09-035-706-3
 : Sequence 3, Application us/09035706
 : Patent No. 6001622

: GENERAL INFORMATION:
 : APPLICANT: Dedhat, Shoukat
 : TITLE OF INVENTION: Integrin-Linked Kinase and
 : TITLE OF INVENTION: Its Uses
 : NUMBER OF SEQUENCES: 11
 : CORRESPONDENCE ADDRESS:
 : ADDRESSEE: Bozicevic & Reed, LLP
 : STREET: 285 Hamilton Avenue, Suite 200
 : CITY: Palo Alto
 : STATE: CA
 : COUNTRY: USA
 : ZIP: 94301
 : COMPUTER READABLE FORM:
 : MEDIUM TYPE: Diskette
 : COMPUTER: IBM Compatible
 : OPERATING SYSTEM: DOS
 : SOFTWARE: FASTSEQ for Windows Version 2.0
 : CURRENT APPLICATION DATA:
 : APPLICATION NUMBER: US/09/035.706
 : FILING DATE:
 : CLASSIFICATION:
 : PRIOR APPLICATION DATA:
 : APPLICATION NUMBER:
 : FILING DATE:
 : ATTORNEY/AGENT INFORMATION:
 : NAME: Sherwood, Pamela J
 : REGISTRATION NUMBER: 36,677
 : REFERENCE/DOCKET NUMBER: KIN-2CIP1
 : TELECOMMUNICATION INFORMATION:
 : TELEPHONE: 650-327-3400
 : TELEFAX: 650 327-3231
 : TELEX:
 : INFORMATION FOR SEQ ID NO: 3:
 : SEQUENCE CHARACTERISTICS:
 : LENGTH: 258 amino acids
 : TYPE: amino acid
 : STRANDEDNESS: single
 : TOPOLOGY: linear
 : MOLECULE TYPE: protein
 : US-09-035-706-3

Query Match 28.8%; Score 768; DB 3; Length 258;
 Best Local Similarity 58.8%; Pred. No. 1.2e-57;
 Matches 147; Conservative 45; Mismatches 56; Indels 2; Gaps 1;

QY 231 NLQHLTGAQIGEGEFGAVLOGEYLQGVAVKNKICDVTAQAFIDETAVMTKMOHENLVR 290
 1 NMKELKLLQITIGKEFGEDVHMGDRGNKVAVKCIKNDATAOAFLEASVMTOLRHSNLVQ 60
 QY 291 LLAGVILHQ--GLYIVMEVSKGNLVNLFRTGRALVNTAQLQFSLHVAEGMEYLESKRL 348
 61 LLAGVIVMEKGGGLYIVTEYMAKGLVDYLRSGRSVLGDCLLKPSLDVCEAMEYLEGNF 120
 QY 349 VHRDLAARNVLVSDNNAKVSDFGLTKFASSTODTGKLPVWTAPEALREKFTSKSDVW 408
 121 VHRDLAARNVLVSDNNAKVSDFGLTKFASSTODTGKLPVWTAPEALREKFTSKSDVW 180

QY 409 SFGVLLMEVFSYGRAPYPKMSLKEVSEAVEKGYRMEPEGCGPVAHVLMSSCWEAPARR 468
 181 SFGVLLMEVFSYGRAPYPRIPDLKDVPRVEKGYMDABDGCPPAVYEVMKNCWHLDAAMR 240
 QY 469 PPFRRKLAERL 478
 241 PSFLQLREQL 250

Search completed: September 11, 2003, 14:15:46
 Job time : 27 secs

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GenCore version 5.1.6
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: September 11, 2003, 14:13:56 ; Search time 29 Seconds
(without alignments)
2550.952 Million cell updates/sec

Title: US-09-977-261-2
Perfect score: 2671
Sequence: 1 MAGRGLSVSWRAFHGCDSEAE.....PASVSGQADGSTSPRSGEP 507

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 541936 seqs, 145912426 residues

Total number of hits satisfying chosen parameters: 541936

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :

Published Applications_AA:*

1: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep:*
2: /cgn2_6/ptodata/1/pubpaa/PCT_NEW_PUB.pep:*
3: /cgn2_6/ptodata/1/pubpaa/US06_NEW_PUB.pep:*
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7: /cgn2_6/ptodata/1/pubpaa/US08_NEW_PUB.pep:*
8: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep:*
9: /cgn2_6/ptodata/1/pubpaa/US09_PUBCOMB.pep:*
10: /cgn2_6/ptodata/1/pubpaa/US09B_PUBCOMB.pep:*
11: /cgn2_6/ptodata/1/pubpaa/US09C_PUBCOMB.pep:*
12: /cgn2_6/ptodata/1/pubpaa/US09C_PUBCOMB.pep:*
13: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep:*
14: /cgn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pep:*
15: /cgn2_6/ptodata/1/pubpaa/US10C_PUBCOMB.pep:*
16: /cgn2_6/ptodata/1/pubpaa/US10C_PUBCOMB.pep:*
17: /cgn2_6/ptodata/1/pubpaa/US60_NEW_PUB.pep:*
18: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	2671	100.0	507	US-09-977-269-2	Sequence 2, Appl1
2	2671	100.0	507	US-09-977-260-2	Sequence 2, Appl1
3	2671	100.0	507	US-09-977-261-2	Sequence 2, Appl1
4	2012	75.3	386	US-10-187-900-4	Sequence 4, Appl1
5	2012	75.3	415	US-10-187-900-2	Sequence 2, Appl1
6	1245.5	46.6	450	US-09-977-269-7	Sequence 7, Appl1
7	1245.5	46.6	450	US-09-977-260-7	Sequence 7, Appl1
8	1245.5	46.6	450	US-09-977-261-7	Sequence 7, Appl1
9	1245.5	46.6	450	US-10-059-585-42	Sequence 42, Appl1
10	1245.5	46.6	450	US-10-177-293-88	Sequence 88, Appl1
11	1245.5	46.6	450	US-10-298-377A-2	Sequence 2, Appl1
12	916	34.3	357	US-09-929-266-9	Sequence 9, Appl1
13	768	28.8	258	US-09-840-704-3	Sequence 3, Appl1
14	742.5	27.8	509	US-09-977-269-18	Sequence 18, Appl1
15	742.5	27.8	509	US-09-977-260-18	Sequence 18, Appl1

16	742.5	27.8	509	11	US-09-977-261-18	Sequence 18, Appl1
17	727	27.2	536	9	US-09-977-269-13	Sequence 13, Appl1
18	727	27.2	536	10	US-09-977-260-13	Sequence 13, Appl1
19	727	27.2	536	11	US-09-929-266-10	Sequence 10, Appl1
20	727	27.2	536	11	US-09-977-261-13	Sequence 13, Appl1
21	720.5	27.0	505	9	US-09-977-269-17	Sequence 17, Appl1
22	720.5	27.0	505	10	US-09-977-260-17	Sequence 17, Appl1
23	720.5	27.0	505	11	US-09-977-261-17	Sequence 17, Appl1
24	710	26.6	543	9	US-09-977-269-14	Sequence 14, Appl1
25	710	26.6	543	10	US-09-977-260-14	Sequence 14, Appl1
26	710	26.6	543	11	US-09-977-261-14	Sequence 14, Appl1
27	710	26.6	543	16	US-10-298-377A-4	Sequence 4, Appl1
28	707	26.5	512	9	US-09-977-269-16	Sequence 16, Appl1
29	707	26.5	512	10	US-09-977-260-16	Sequence 16, Appl1
30	707	26.5	512	11	US-09-977-261-16	Sequence 16, Appl1
31	699.5	26.2	536	9	US-09-977-269-12	Sequence 12, Appl1
32	699.5	26.2	536	10	US-09-977-260-12	Sequence 12, Appl1
33	699.5	26.2	536	11	US-09-977-261-12	Sequence 12, Appl1
34	699	26.2	499	9	US-09-977-269-19	Sequence 19, Appl1
35	699	26.2	499	10	US-09-977-260-19	Sequence 19, Appl1
36	699	26.2	499	11	US-09-977-261-19	Sequence 19, Appl1
37	698.5	26.2	537	9	US-09-977-269-11	Sequence 11, Appl1
38	698.5	26.2	537	10	US-09-977-260-11	Sequence 11, Appl1
39	698.5	26.2	537	11	US-09-977-261-11	Sequence 11, Appl1
40	695.5	26.0	537	10	US-09-771-161A-212	Sequence 212, Appl1
41	695.5	26.0	537	10	US-09-771-161A-213	Sequence 213, Appl1
42	694.5	26.0	1130	12	US-10-171-889-1	Sequence 1, Appl1
43	692	25.9	505	10	US-09-771-161A-186	Sequence 186, Appl1
44	681.5	25.5	529	9	US-09-977-269-15	Sequence 15, Appl1
45	681.5	25.5	529	10	US-09-977-260-15	Sequence 15, Appl1

ALIGNMENTS

RESULT 1
US-09-977-269-2
Sequence 2, Application US/09977269
Patent No. US20020082037A1
GENERAL INFORMATION:
APPLICANT: ULIRICH, AXEL
APPLICANT: GISHIZKY, MIKHAEL
APPLICANT: SURES, IRMINGARD
TITLE OF INVENTION: NOVEL MEGAKARYOCYTIC PROTEIN TYROSINE KINASES
FILE REFERENCE: 038602/1260
CURRENT APPLICATION NUMBER: US/09/977, 269
CURRENT FILING DATE: 2001-10-16
PRIOR APPLICATION NUMBER: 08/232, 545
PRIOR FILING DATE: 1994-04-22
NUMBER OF SEQ ID NOS: 24
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 2
LENGTH: 507
TYPE: PRT
ORGANISM: Unknown Organism
FEATURE:
OTHER INFORMATION: Description of Unknown Organism: Megakaryocyte
OTHER INFORMATION: Kinase 1
US-09-977-269-2

Query Match 100.0%; Score 2671; DB 9; Length 507;
Best Local Similarity 100.0%; Pred. No. 1.1e-209;
Matches 507; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MAGRGLSVSWRAFHGCDSEAEELPRVSPRLRAWHPPVSARMPTRMAPGTGTCICENT 60
|||||
DB 1 MAGRGLSVSWRAFHGCDSEAEELPRVSPRLRAWHPPVSARMPTRMAPGTGTCICENT 60
|||||
QY 61 RRPFGELARRKGGVYVITLACENKSWYRKVHNHSGDEGLLAGALREKRLSDPKLSLM 120
|||||
DB 61 RRPFGELARRKGGVYVITLACENKSWYRKVHNHSGDEGLLAGALREKRLSDPKLSLM 120
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QY 121 PMFHGKISQGEAVQQLPPEDGLFLVRESARHPGDVYLCVSFGROVITHYRLHRDGLFTI 180
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Db      181 DEAVEFCNLMDMVEHYHYSKDKGALCTKLVPRKRKHGTSAEDELARAGWMLNLQHLTLGAQ 240
Qy      241 IGEFEGAVLQGEYLGQKVAANKIKCDVTAQAFIDETAVMTKMQHENLVRLGLVTLHGGL 300
Db      241 IGEFEGAVLQGEYLGQKVAANKIKCDVTAQAFIDETAVMTKMQHENLVRLGLVTLHGGL 300
Qy      301 YIYMEHVSKGMLVNFLLTRGRALVNTAQLLOFSLHVAAGMEYLESKKLVHDLAARNILY 360
Db      301 YIYMEHVSKGMLVNFLLTRGRALVNTAQLLOFSLHVAAGMEYLESKKLVHDLAARNILY 360
Qy      361 SEDLVAKVSDFGLAKAERKGLDSSRLPVKWTAPALAKHGKFTSKSDVMSFGVLLMEVFSY 420
Db      361 SEDLVAKVSDFGLAKAERKGLDSSRLPVKWTAPALAKHGKFTSKSDVMSFGVLLMEVFSY 420
Qy      421 GRAPYPKMSLKEVSAVEKGYRMEPECCPGVHVLMSSCWEAEAPARRPPFKLAEKLAR 480
Db      421 GRAPYPKMSLKEVSAVEKGYRMEPECCPGVHVLMSSCWEAEAPARRPPFKLAEKLAR 480
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Db      481 ELRSAGAPASVSGQDADGSTSPRSQEP 507
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RESULT 2

US-09-977-260-2

Sequence 2, Application US/09977260

Publication No. US20020192790A1

GENERAL INFORMATION:

APPLICANT: ULLRICH, AXEL

APPLICANT: GISHIZKY, MIKHAIL

APPLICANT: SURES, IRMINCARD

TITLE OF INVENTION: NOVEL MEGAKARYOCYTIC PROTEIN TYROSINE KINASES

FILE REFERENCE: 038602/1260

CURRENT APPLICATION NUMBER: US/09/977,260

CURRENT FILING DATE: 2001-10-16

PRIOR APPLICATION NUMBER: 08/232,545

PRIOR FILING DATE: 1994-04-22

NUMBER OF SEQ ID NOS: 24

SOFTWARE: PatentIn Ver. 2.1

SEQ ID NO 2

LENGTH: 507

TYPE: PRT

ORGANISM: Unknown Organism

FEATURE:

OTHER INFORMATION: Description of Unknown Organism: Megakaryocyte

US-09-977-260-2

Query Match 100.0%; Score 2671; DB 10; Length 507;

Best Local Similarity 100.0%; Pred. No. 1,1e-209;

Matches 507; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db      61 RPKPEELAFRRKGDVVTILEACENKSWYRKHTTSQEBLLAAGALREREALSADPKLSLM 120
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Db      121 PMFHGKISGQEAVALQDPEDGFLVRESARHPGCVLCVSFGRVHYRVLHRDGHLLTI 180
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Db      361 SEDLVAKVSDFGLAKAERKGLDSSRLPVKWTAPALAKHGKFTSKSDVMSFGVLLMEVFSY 420
Qy      421 GRAPYPKMSLKEVSAVEKGYRMEPECCPGVHVLMSSCWEAEAPARRPPFKLAEKLAR 480
Db      421 GRAPYPKMSLKEVSAVEKGYRMEPECCPGVHVLMSSCWEAEAPARRPPFKLAEKLAR 480
Qy      481 ELRSAGAPASVSGQDADGSTSPRSQEP 507
Db      481 ELRSAGAPASVSGQDADGSTSPRSQEP 507
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RESULT 3

US-09-977-261-2

Sequence 2, Application US/09977261

Publication No. US20030054527A1

GENERAL INFORMATION:

APPLICANT: ULLRICH, AXEL

APPLICANT: GISHIZKY, MIKHAIL

APPLICANT: SURES, IRMINCARD

TITLE OF INVENTION: NOVEL MEGAKARYOCYTIC PROTEIN TYROSINE KINASES

FILE REFERENCE: 038602/1259

CURRENT APPLICATION NUMBER: US/09/977,261

CURRENT FILING DATE: 2001-10-16

PRIOR APPLICATION NUMBER: 08/232,545

PRIOR FILING DATE: 1994-04-22

NUMBER OF SEQ ID NOS: 24

SOFTWARE: PatentIn Ver. 2.1

SEQ ID NO 2

LENGTH: 507

TYPE: PRT

ORGANISM: Unknown Organism

FEATURE:

OTHER INFORMATION: Description of Unknown Organism: Megakaryocyte

US-09-977-261-2

Query Match 100.0%; Score 2671; DB 11; Length 507;

Best Local Similarity 100.0%; Pred. No. 1,1e-209;

Matches 507; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db      1 MAGRGSLSVSWRAFHGCDSEAEELPRVSPRFLRAMHPPVSAIRMPTRRMAPGTQCTIKCEHT 60
Qy      61 RPKPEELAFRRKGDVVTILEACENKSWYRKHTTSQEBLLAAGALREREALSADPKLSLM 120
Db      61 RPKPEELAFRRKGDVVTILEACENKSWYRKHTTSQEBLLAAGALREREALSADPKLSLM 120
Qy      121 PMFHGKISGQEAVALQDPEDGFLVRESARHPGCVLCVSFGRVHYRVLHRDGHLLTI 180
Db      121 PMFHGKISGQEAVALQDPEDGFLVRESARHPGCVLCVSFGRVHYRVLHRDGHLLTI 180
Qy      181 DEAVEFCNLMDMVEHYHYSKDKGALCTKLVPRKRKHGTSAEDELARAGWMLNLQHLTLGAQ 240
Db      181 DEAVEFCNLMDMVEHYHYSKDKGALCTKLVPRKRKHGTSAEDELARAGWMLNLQHLTLGAQ 240
Qy      241 IGEFEGAVLQGEYLGQKVAANKIKCDVTAQAFIDETAVMTKMQHENLVRLGLVTLHGGL 300
Db      241 IGEFEGAVLQGEYLGQKVAANKIKCDVTAQAFIDETAVMTKMQHENLVRLGLVTLHGGL 300
Qy      301 YIYMEHVSKGMLVNFLLTRGRALVNTAQLLOFSLHVAAGMEYLESKKLVHDLAARNILY 360
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QY	421	GRAPYPKMSLKEVSEAAVEKGYRMEPEEGCPCPVHYLMSSCWEAEAPRRPPFKLLAEKLAR	480
Db	421	GRAPYPKMSLKEVSEAAVEKGYRMEPEEGCPCPVHYLMSSCWEAEAPRRPPFKLLAEKLAR	480
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Db	481	ELRSAGAPASVSGODADGSGTSPRSQEP	507

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RESULT 4
US-10-187-900-4
; Sequence 4, Application US/10187900
; Publication No. US20030166221A1
; GENERAL INFORMATION:
; APPLICANT: BEASLEY, Ellen M. et al
; TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC
; TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: CLO01061
; CURRENT APPLICATION NUMBER: US/10/187,900
; CURRENT FILING DATE: 2002-07-03
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 386
; TYPE: PRF
; ORGANISM: Human
US-10-187-900-4

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Query Match	75.3%	Score 2012;	DB 12;	Length 386;
Best Local Similarity	100.0%	Pred. No.	4.7e-156;	
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QY	122	WPHKISGOEAVOOLQLOPDEGLFLVRESARHGDVVLCSFGADVYIHYVRLHRDCHLTID	181
Db	1	WPHKISGOEAVOOLQPPEDGFLVRESARHGDVVLCSFGADVYIHYVRLHRDCHLTID	60
QY	182	EAVEFCNIMDMVENVHSKDKGAICTKLVBPKRKHGKTSABEELARAGWMLNLOHTLGAOI	241
Db	61	EAVEFCNIMDMVENVHSSKDKGAICTKLVBPKRKHGKTSABEELARAGWMLNLOHTLGAOI	120
QY	242	GEFEGFANLQGEYLGOKVAVNKKICDVTAQAFLEDTAVMTKMOENLVRLLGVIIHOGIX	301
Db	121	GEFEGFANLQGEYLGOKVAVNKKICDVTAQAFLEDTAVMTKMOENLVRLLGVIIHOGIX	180
QY	302	IVMEHVSNGNLVNFLETRGRALVMTAOLQSLHVAEGMEYLESKIVLRDILAARNIVS	361
Db	181	IVMEHVSNGNLVNFLETRGRALVMTAOLQSLHVAEGMEYLESKIVLRDILAARNIVS	240
QY	362	EDLVAKVSDFGLAERKGGDSSRLPVMTAPALAKHKFTSKSDVWSEGVLLMEVFSYG	421
Db	241	EDLVAKVSDFGLAERKGGDSSRLPVMTAPALAKHKFTSKSDVWSEGVLLMEVFSYG	300
QY	422	RAPYPKMSLKEVSEAVEKGYRMEPEEGCPGVYHVLMSSCWEAEAPARRPFRKLAELARE	481
Db	301	RAPYPKMSLKEVSEAVEKGYRMEPEEGCPGVYHVLMSSCWEAEAPARRPFRKLAELARE	360
QY	482	LRSAGAPASVSGODADGSTSPRSQPP	507
Db	361	LRSAGAPASVSGODADGSTSPRSQPP	386

RESULT 5
US-10-187-900-2
; Sequence 2, Application US/10187900
; Publication No. US20030166221A1
; GENERAL INFORMATION:
; APPLICANT: BEASLEY, Ellen M. et al

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: TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC
: TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES
: TITLE OF INVENTION: THEREOF
: TITLE OF INVENTION: CLO01061
: CURRENT APPLICATION NUMBER: US/10/187,900
: CURRENT FILING DATE: 2002-07-03
: NUMBER OF SEQ ID NOS: 4
: SOFTWARE: FastSeq for Windows Version 4.0
: SEQ ID NO 2
: LENGTH: 415
: TYPE: PRT
: ORGANISM: Human
US-10-187-900-2

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Query Match	75.3%;	Score 2012;	DB 12;	Length 415;
Best Local Similarity	100.0%;	Pred. No. 5.1e-156;		
Matches 386;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;

Oy	122	FHGHGTSQEAQOOLQPPEDGFLFVRESARHGVDVLCSPGSDVTHYHVLHNDGHLTID	181
Dd	30	WFHGKISSQEAQOOLQPPEDGFLFVRESARHGVDVLCSPGSDVTHYHVLHNDGHLTID	89
Oy	182	EAVEFCNIMDVEHYSKDKGALCTKLVBRKRHGTKSABEELARAGMLNLOHLTLGAOI	241
Dd	90	EAVEFCNIMDVEHYSKDKGALCTKLVBRKRHGTKSABEELARAGMLNLOHLTLGAOI	149
Oy	242	GEGERGAVLOGEYLGQKVAVKNIKCDVTAQALDDETAVNTKMOHELVRLGLYTLHQGLX	301
Dd	150	GEGERGAVLOGEYLGQKVAVKNIKCDVTAQALDDETAVNTKMOHELVRLGLYTLHQGLX	209
Oy	302	IYMEHVSNGNLVNFRTGGRALVNTAOLLOFSLHVAEGMEYLESKKLVHRDLAARNILVS	361
Dd	210	IYMEHVSNGNLVNFRTGGRALVNTAOLLOFSLHVAEGMEYLESKKLVHRDLAARNILVS	269
Oy	362	EDLVAKVSDFGLAKAERKGLDSSRLPVKWTAEALKHGFTSKSDVMSFGVLLMEVFSYG	421
Dd	270	EDLVAKVSDFGLAKAERKGLDSSRLPVKWTAEALKHGFTSKSDVMSFGVLLMEVFSYG	329
Oy	422	RAPYKMSLKEVSEAVENKGYRMEPEBGCQPVHVLMSCEWEAEPARPPRKLAEKLAERE	481
Dd	330	RAPYKMSLKEVSEAVENKGYRMEPEBGCQPVHVLMSCEWEAEPARPPRKLAEKLAERE	389
Oy	482	LRSAGAPASVSGQDADGSTSPRSQOE	507
Dd	390	LRSAGAPASVSGQDADGSTSPRSQOE	415

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RESULT 6
US-09-977-269-7
: Sequence 7, Application US/09977269
: Patent No. US20020082037A1
: GENERAL INFORMATION:
: APPLICANT: ULLRICH, AXEL
: APPLICANT: GISHICKY, MIKHAIL
: APPLICANT: SURES, IRMINARD
: TITLE OF INVENTION: NOVEL MEGAKARYOCYTIC PROTEIN TYROSINE KINASES
: FILE REFERENCE: 038602/1260
: CURRENT APPLICATION NUMBER: US/09/977, 269
: CURRENT FILING DATE: 2001-10-16
: PRIOR APPLICATION NUMBER: 08/232, 545
: PRIOR FILING DATE: 1994-04-22
: NUMBER OF SEQ ID NOS: 24
: SOFTWARE: PatentIn Ver. 2.1
: SEQ ID NO 7
: LENGTH: 450
: TYPE: PRT
: ORGANISM: Homo sapiens
US-09-977-269-7

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Query Match	46.6%;	Score 1245.5;	DB 9;	Length 450;
Best Local Similarity	54.1%;	Pred. No. 2.1e-93;		
Matches 235;	Conservative 81;	Mismatches 115;	Indels 3;	Gaps 2

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OY 47 WAPGOCITTCCEHTPRKPGELAFRRKGDVVTTLLEACENKSWYRVKHNHSGOGSLAAGALR 106
| | | | | : | | | | | : | | | | | : | | | | | : | | | | | : | | | | | :
DB 8 WPSGTECIATKYNFGHTAEODLRFCKGDVLTIVAVTKDPMYKAKNKV-GREGIIPANYVQ 66
OY 107 EREALSADPKLSLMPWFHFKISGOEAVOOLOPPEDGLFLVESARHPGDIYLCVSGRDV 166
| | : | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
DB 67 KREGVAKGTKLSLMPWFHFKITRQAEERLTPPEGLFLVESRNPEDYTLVCSCDQV 126
OY 167 IHYVLRHDGHLTIDEAVFPCNLMDWYHYSKDKGAICTKLVPRKRKHGTSAEDELARA 226
| | | | | : | | | | | : | | | | | : | | | | | : | | | | | : | | | | | :
DB 127 EHYRIMYHASKLSIDEEYFENLMQVLEHYTSDADGLCTRLIKPKVMGFTVAADOEFYRS 186
OY 227 GMLNLQHLTLGAOIGEGEPGAVLOGEYLGOKVAVKNKCDVTAQAFIDETAIVMTKMOHE 286
| | | | | : | | | | | : | | | | | : | | | | | : | | | | | : | | | | | :
DB 187 GMLNMMKELKLTQITGKEFGDVMIGDYRGKNAVAKCIKNDAATAFLAASVMTQLRHS 246
OY 287 NLVRLGLVILHQ--GLYIVMEHVSNGNLVNFRLTRGRALVMTAQLLOFSLHVAEGMEYLE 344
| | | | | : | | | | | : | | | | | : | | | | | : | | | | | : | | | | | :
DB 247 NLVOLLGIVYEKGLYIVTEYMAKGSIVDYLRSGRSVLDGDCILKFSLDVCEAMEYLE 306
OY 345 SKLIVHRDLARNILVSDILYAKVSDFGLAAERKGLDSSRLPYKWTAPREALKHGKFTSK 404
| | | | | : | | | | | : | | | | | : | | | | | : | | | | | : | | | | | :
DB 307 GNNFVHRDLARNVLSVDNNAKVSDFGLTKEASTQDTGKLPVKWTAPEALREKKFSTK 366
OY 405 SDVMSFGVLLMEVSYSGRAPYPKMSLKEVSEAVEKGYRMEPPGCGPVHILMSSCEAE 464
| | | | | : | | | | | : | | | | | : | | | | | : | | | | | : | | | | | :
DB 367 SDVMSFGVLLMEIYSFGVRVPRIPRLKDQVPRVEKGYKMDAPDCCPRAVVEVMKNCMHL 426
OY 465 PARPPPRKLAEKL 478
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DB 427 AAMRPSFLQREOL 440

RESULT 7
US-09-977-260-7
; Sequence 7, Application US/09977260
; Publication No. US20020192790A1
; GENERAL INFORMATION:
; APPLICANT: ULRICH, AXEL
; APPLICANT: GISHIZKY, MIKHAIL
; APPLICANT: SURES, IRMINGARD
; TITLE OF INVENTION: NOVEL MEGAKARYOCYTIC PROTEIN TYROSINE KINASES
; FILE REFERENCE: 038602/1260
; CURRENT APPLICATION NUMBER: US/09/977,260
; PRIOR FILING DATE: 2001-10-16
; PRIOR APPLICATION NUMBER: 08/232,545
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 7
; LENGTH: 450
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-977-260-7

Query Match 46.6%, Score 1245.5; DB 10; Length 450;
Best Local Similarity 54.1%, Pred. No. 2.1e-93;
Matches 235; Conservative 81; Mismatches 115; Indels 3; Gaps 2;

OY 47 WAPGOCITTCCEHTPRKPGELAFRRKGDVVTTLLEACENKSWYRVKHNHSGOGSLAAGALR 106
| | | | | : | | | | | : | | | | | : | | | | | : | | | | | : | | | | | :
DB 8 WPSGTECIATKYNFGHTAEODLRFCKGDVLTIVAVTKDPMYKAKNKV-GREGIIPANYVQ 66
OY 107 EREALSADPKLSLMPWFHFKISGOEAVOOLOPPEDGLFLVESARHPGDIYLCVSGRDV 166
| | : | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
DB 67 KREGVAKGTKLSLMPWFHFKITRQAEERLTPPEGLFLVESRNPEDYTLVCSCDQV 126
OY 167 IHYVLRHDGHLTIDEAVFPCNLMDWYHYSKDKGAICTKLVPRKRKHGTSAEDELARA 226
| | | | | : | | | | | : | | | | | : | | | | | : | | | | | : | | | | | :
DB 127 EHYRIMYHASKLSIDEEYFENLMQVLEHYTSDADGLCTRLIKPKVMGFTVAADOEFYRS 186
OY 227 GMLNLQHLTLGAOIGEGEPGAVLOGEYLGOKVAVKNKCDVTAQAFIDETAIVMTKMOHE 286
| | | | | : | | | | | : | | | | | : | | | | | : | | | | | : | | | | | :
```

```
DB 187 GMLNMMKELKLTQITGKEFGDVMIGDYRGKNAVAKCIKNDAATAFLAASVMTQLRHS 246
OY 287 NLVRLGLVILHQ--GLYIVMEHVSNGNLVNFRLTRGRALVMTAQLLOFSLHVAEGMEYLE 344
| | | | | : | | | | | : | | | | | : | | | | | : | | | | | : | | | | | :
DB 247 NLVOLLGIVYEKGLYIVTEYMAKGSIVDYLRSGRSVLDGDCILKFSLDVCEAMEYLE 306
OY 345 SKLIVHRDLARNILVSDILYAKVSDFGLAAERKGLDSSRLPYKWTAPREALKHGKFTSK 404
| | | | | : | | | | | : | | | | | : | | | | | : | | | | | : | | | | | :
DB 307 GNNFVHRDLARNVLSVDNNAKVSDFGLTKEASTQDTGKLPVKWTAPEALREKKFSTK 366
OY 405 SDVMSFGVLLMEVSYSGRAPYPKMSLKEVSEAVEKGYRMEPPGCGPVHILMSSCEAE 464
| | | | | : | | | | | : | | | | | : | | | | | : | | | | | : | | | | | :
DB 367 SDVMSFGVLLMEIYSFGVRVPRIPRLKDQVPRVEKGYKMDAPDCCPRAVVEVMKNCMHL 426
OY 465 PARPPPRKLAEKL 478
| | | | | : | | | | | : | | | | | : | | | | | : | | | | | : | | | | | :
DB 427 AAMRPSFLQREOL 440

RESULT 8
US-09-977-261-7
; Sequence 7, Application US/09977261
; Publication No. US20030054527A1
; GENERAL INFORMATION:
; APPLICANT: ULRICH, AXEL
; APPLICANT: GISHIZKY, MIKHAIL
; APPLICANT: SURES, IRMINGARD
; TITLE OF INVENTION: NOVEL MEGAKARYOCYTIC PROTEIN TYROSINE KINASES
; FILE REFERENCE: 038602/1259
; CURRENT APPLICATION NUMBER: US/09/977,261
; PRIOR FILING DATE: 2001-10-16
; PRIOR APPLICATION NUMBER: 08/232,545
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 7
; LENGTH: 450
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-977-261-7

Query Match 46.6%, Score 1245.5; DB 11; Length 450;
Best Local Similarity 54.1%, Pred. No. 2.1e-93;
Matches 235; Conservative 81; Mismatches 115; Indels 3; Gaps 2;

OY 47 WAPGOCITTCCEHTPRKPGELAFRRKGDVVTTLLEACENKSWYRVKHNHSGOGSLAAGALR 106
| | | | | : | | | | | : | | | | | : | | | | | : | | | | | : | | | | | :
DB 8 WPSGTECIATKYNFGHTAEODLRFCKGDVLTIVAVTKDPMYKAKNKV-GREGIIPANYVQ 66
OY 107 EREALSADPKLSLMPWFHFKISGOEAVOOLOPPEDGLFLVESARHPGDIYLCVSGRDV 166
| | : | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
DB 67 KREGVAKGTKLSLMPWFHFKITRQAEERLTPPEGLFLVESRNPEDYTLVCSCDQV 126
OY 167 IHYVLRHDGHLTIDEAVFPCNLMDWYHYSKDKGAICTKLVPRKRKHGTSAEDELARA 226
| | | | | : | | | | | : | | | | | : | | | | | : | | | | | : | | | | | :
DB 127 EHYRIMYHASKLSIDEEYFENLMQVLEHYTSDADGLCTRLIKPKVMGFTVAADOEFYRS 186
OY 227 GMLNLQHLTLGAOIGEGEPGAVLOGEYLGOKVAVKNKCDVTAQAFIDETAIVMTKMOHE 286
| | | | | : | | | | | : | | | | | : | | | | | : | | | | | : | | | | | :
DB 187 GMLNMMKELKLTQITGKEFGDVMIGDYRGKNAVAKCIKNDAATAFLAASVMTQLRHS 246
OY 287 NLVRLGLVILHQ--GLYIVMEHVSNGNLVNFRLTRGRALVMTAQLLOFSLHVAEGMEYLE 344
| | | | | : | | | | | : | | | | | : | | | | | : | | | | | : | | | | | :
DB 247 NLVOLLGIVYEKGLYIVTEYMAKGSIVDYLRSGRSVLDGDCILKFSLDVCEAMEYLE 306
OY 345 SKLIVHRDLARNILVSDILYAKVSDFGLAAERKGLDSSRLPYKWTAPREALKHGKFTSK 404
| | | | | : | | | | | : | | | | | : | | | | | : | | | | | : | | | | | :
DB 307 GNNFVHRDLARNVLSVDNNAKVSDFGLTKEASTQDTGKLPVKWTAPEALREKKFSTK 366
OY 405 SDVMSFGVLLMEVSYSGRAPYPKMSLKEVSEAVEKGYRMEPPGCGPVHILMSSCEAE 464
| | | | | : | | | | | : | | | | | : | | | | | : | | | | | : | | | | | :
DB 367 SDVMSFGVLLMEIYSFGVRVPRIPRLKDQVPRVEKGYKMDAPDCCPRAVVEVMKNCMHL 426
```



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OY 167 IHVYLRHGDHLTIDEAVFPCNLMDVHYSKDKGATCTKLVPRKRGHTSAEELARA 226
| | | | | : | | | | | : | | | | | : | | | | | : | | | | | :
DB 127 EHYRIMYHASKLSTIDEVEYFENLMQVYHYSDSADGCLTRLIKPKVMGTVAAODEFYRS 186
227 GMLNLQHLTLGAOIGEEFGAVLQGEYLGOKVAVKNKICDVTQAQAFIDETAVMTKMOHE 286
| | | | | : | | | | | : | | | | | : | | | | | : | | | | | :
DB 187 GMLNMLKELKLLQTTIGKEFGEDVMIGDYRGKNVAVKCKJKNQNTAQAFILAESVMTOLRHS 246
OY 287 NLVRLGLVYLHO--GLTYVMEHVSCKNLVNFRLPFRGRALVNTAOLLOFSLHVAEGMEYLE 344
DB 247 NLVOLLGVYVEEKGGLTYVTEYMAKGSVLDYLRSGRVSGLGDCCLFKFSLDVCEAMEYLE 306
OY 345 SKLTVHRDLAARNILVSEDVAVKVSDFGLAKAERKGLDSSRLPYKWTAPALAKHGKFTSK 404
DB 307 GNNFVHRDLAARNVLYSEDVAVKVSDFGLTKEASTQDTGKLPVKWTAPALAKRKKFSTK 366
OY 405 SDVMSFGVLLMEVSYGAPYPKMSLKEVSAVEKGYMEPECCPGVHVLMSCEWAE 464
DB 367 SDVMSFGVLLMEIYSFGGVPPYRIPRLKDVPRVEKGYKMDAPDGCPPAYVEVMKNCWMLD 426
OY 465 PARPPFRKLAEKL 478
DB 427 AAMRPSFLQLEQL 440
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RESULT 11

```
US-10-298-377A-2
; Sequence 2, Application US/10298377A
; Publication No. US20030130209A1
; GENERAL INFORMATION:
; APPLICANT: The Scripps Research Institute
; APPLICANT: Chersin, David A.
; APPLICANT: Paul, Robert
; APPLICANT: Eliceiri, Brian
; TITLE OF INVENTION: Method of Treatment of Myocardial
; FILE REFERENCE: TSRI-651.5
; CURRENT APPLICATION NUMBER: US/10/298.377A
; CURRENT FILING DATE: 2002-11-18
; PRIOR APPLICATION NUMBER: 10/298.377
; PRIOR FILING DATE: 2002-11-18
; PRIOR APPLICATION NUMBER: 09/470,881
; PRIOR FILING DATE: 1999-12-22
; PRIOR APPLICATION NUMBER: 09/538,248
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: PCT/US99/11780
; PRIOR FILING DATE: 1999-05-28
; PRIOR APPLICATION NUMBER: 60/087,220
; PRIOR FILING DATE: 1998-05-29
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 450
; TYPE: PRT
; ORGANISM: homo sapiens
US-10-298-377A-2
```

```
Query Match 46.6%; Score 1245.5; DB 16; Length 450;
Best Local Similarity 54.1%; Pred. No. 2.1e-93;
Matches 235; Conservative 81; Mismatches 115; Indels 3; Gaps 2;
```

```
OY 47 WAPGTQCTTCCEHTRPRKGEIAFRKGDVYVTLLECEKNSWYRVKHHTSGOGLLAAGLR 106
| | | | | : | | | | | : | | | | | : | | | | | : | | | | | :
DB 8 WPGSTECIAKYNFGTAEODLRFCKGDVLTIVAATKDPNMYKANKV-GRGIIIPANYQ 66
OY 107 ERELSADPKLSTLMPWFHGTISGOEAVOQLOPPEDGLFLVESARHPGDDVLYCSFGDV 166
DB 67 KREGVKAQKTLSTLMPWFHGTITRQDAERLTPPETGLFLVESSTNYRQDYLTVCSGCDKV 126
OY 167 IHVYLRHGDHLTIDEAVFPCNLMDVHYSKDKGATCTKLVPRKRGHTSAEELARA 226
| | | | | : | | | | | : | | | | | : | | | | | : | | | | | :
DB 127 EHYRIMYHASKLSTIDEVEYFENLMQVYHYSDSADGCLTRLIKPKVMGTVAAODEFYRS 186
```

```
OY 227 GMLNLQHLTLGAOIGEEFGAVLQGEYLGOKVAVKNKICDVTQAQAFIDETAVMTKMOHE 286
| | | | | : | | | | | : | | | | | : | | | | | : | | | | | :
DB 187 GMLNMLKELKLLQTTIGKEFGEDVMIGDYRGKNVAVKCKJKNQNTAQAFILAESVMTOLRHS 246
OY 287 NLVRLGLVYLHO--GLTYVMEHVSCKNLVNFRLPFRGRALVNTAOLLOFSLHVAEGMEYLE 344
DB 247 NLVOLLGVYVEEKGGLTYVTEYMAKGSVLDYLRSGRVSGLGDCCLFKFSLDVCEAMEYLE 306
OY 345 SKLTVHRDLAARNILVSEDVAVKVSDFGLAKAERKGLDSSRLPYKWTAPALAKHGKFTSK 404
DB 307 GNNFVHRDLAARNVLYSEDVAVKVSDFGLTKEASTQDTGKLPVKWTAPALAKRKKFSTK 366
OY 405 SDVMSFGVLLMEVSYGAPYPKMSLKEVSAVEKGYMEPECCPGVHVLMSCEWAE 464
DB 367 SDVMSFGVLLMEIYSFGGVPPYRIPRLKDVPRVEKGYKMDAPDGCPPAYVEVMKNCWMLD 426
OY 465 PARPPFRKLAEKL 478
DB 427 AAMRPSFLQLEQL 440
```

RESULT 12

```
US-09-929-266-9
; Sequence 9, Application US/09929266
; Publication No. US20030045694A1
; GENERAL INFORMATION:
; APPLICANT: Brian T. Chait
; APPLICANT: Darin R. Lallmer
; APPLICANT: Paul M. Lizardi
; APPLICANT: Eric R. Kershner
; APPLICANT: Jon S. Morrow
; APPLICANT: Matthew E. Roth
; APPLICANT: Kevin J. McConnell
; TITLE OF INVENTION: ULTRA-SENSITIVE DETECTION SYSTEMS
; FILE REFERENCE: 01173.000302
; CURRENT APPLICATION NUMBER: US/09/929.266
; CURRENT FILING DATE: 2001-08-13
; PRIOR APPLICATION NUMBER: 60/224,939
; PRIOR FILING DATE: 2000-08-11
; PRIOR APPLICATION NUMBER: 60/283,498
; PRIOR FILING DATE: 2000-04-12
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 9
; LENGTH: 357
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-929-266-9
```

```
Query Match 34.3%; Score 916; DB 11; Length 357;
Best Local Similarity 52.3%; Pred. No. 1.2e-66;
Matches 183; Conservative 62; Mismatches 97; Indels 8; Gaps 3;
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```
OY 47 WAPGTQCTTCCEHTRPRKGEIAFRKGDVYVTLLECEKNSWYRVKHHTSGOGLLAAGLR 106
| | | | | : | | | | | : | | | | | : | | | | | : | | | | | :
DB 8 WPGSTECIAKYNFGTAEODLRFCKGDVLTIVAATKDPNMYKANKV-GRGIIIPANYQ 66
OY 107 ERELSADPKLSTLMPWFHGTISGOEAVOQLOPPEDGLFLVESARHPGDDVLYCSFGDV 166
DB 67 KREGVKAQKTLSTLMPWFHGTITRQDAERLTPPETGLFLVESSTNYRQDYLTVCSGCDKV 126
OY 167 IHVYLRHGDHLTIDEAVFPCNLMDVHYSKDKGATCTKLVPRKRGHTSAEELARA 226
| | | | | : | | | | | : | | | | | : | | | | | : | | | | | :
DB 127 EHYRIMYHASKLSTIDEVEYFENLMQVYHYSDSADGCLTRLIKPKVMGTVAAODEFYRS 186
OY 227 GMLNLQHLTLGAOIGEEFGAVLQGEYLGOKVAVKNKICDVTQAQAFIDETAVMTKMOHE 286
DB 187 GMLNMLKELKLLQTTIGKEFGEDVMIGDYRGKNVAVKCKJKNQNTAQAFILAESVMTOLRHS 246
OY 287 NLVRLGLVYLHO--GLTYVMEHVSCKNLVNFRLPFRGRALVNTAOLLOFSLHVAEGMEYLE 344
| | | | | : | | | | | : | | | | | : | | | | | : | | | | | :
DB 247 NLVOLLGVYVEEKGGLTYVTEYMAKGSVLDYLRSGRVSGLGDCCLFKFSLDVCEAMEYLE 306
```



```

QY 125 GKISQEAVOOIQPPED--GLFLVRESARHPGVYLCV----SPGRDVIHRYVLHARD-G 176
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 130 KNLSPKDAEROLLAPGNTHGSFLIRESESTAGSFSLSVDFDQNOGEVVKHYKIRNLNDG 189
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 177 HLTIDEAVFPCNLMMVEHYSKDKGACICIKLVRPKRKHGTSASEELARAGWLLNLQHLT 236
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 190 GFYISPRITTFPGHLELVHRHTNASDGLCTRLSRPCQ---TQKPKQPMWEDEWEVPRETLK 246
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 237 LGAQIGEGEFGAVLOGEYLGQ-KVAVKNIK-CDVTAQAFLDETAVMTKQHENVRLILGV 294
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 247 LYERLGAGQFGEVMMGYNGHTKVAVKSLKQGSMSPDALFLAENLMLKQLOHQRVLRYAV 306
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 295 ILHGLIYVMEHYSKGNLVNPLRTGRALVNTAQLLOFSLHVAEGMEYLESKKLVHRDLA 354
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 307 VTQEPYIYITEYEMENGLVDLFLKTPSGIKLITINKLLDMAAQIAEGMAFTEERNYIHRDLR 366
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 355 ANNIIVSIEDLVAKVSDFGIACA---ERKGLDSSRLPVKWTAPDALKHGKFTSKSDVWSF 410
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 367 ANNIIVSDFLSCKIADFGIARLIEDNEYTAREGAKFPIKWTAPDAIINGTFTIKSDVWSF 426
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 411 GVLMEVFSYGRAPYPKMSLKEVSEAVEKGYRMEPEGCGPVPVILMSSCWEAEAPARRPP 470
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 427 GILLFEIYTHGRIPFGMTNPEVIONLERGYRMVRPDCPEELYOLMLRCWKKEPREDRPT 486
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 471 FRKLAEKL 478
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 487 FDYLRSVL 494
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

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 Job time : 31 secs